

* NOTICES *

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 CLAIMS

[Claim(s)]

[Claim 1] The 1st printing cylinder which can rotate freely with porosity, and the 1st ink supply means which is prepared in the interior of the 1st printing cylinder, and supplies ink to the inner skin of the 1st printing cylinder, It is prepared free [attachment and detachment] to the peripheral face of the 1st printing cylinder, and the print sheet with which it was fed is pressed to the peripheral face of the 1st printing cylinder. The press member which transfers the ink supplied from the 1st ink supply means to the 1st field of this print sheet and which can be rotated, The 1st exfoliation means which it is arranged [1st] free [rotation] near the peripheral face of the 1st printing cylinder, and makes said print sheet exfoliate from the peripheral face of the 1st printing cylinder, The 2nd printing cylinder which is the cylinder object which can rotate freely with the porosity prepared in the print sheet conveyance direction downstream of the 1st printing cylinder arrangement location, and was arranged so that the peripheral face might counter with the 2nd field of said print sheet, The 2nd ink supply means which is prepared in the interior of the 2nd printing cylinder, and supplies ink to the inner skin of the 2nd printing cylinder, The 2nd exfoliation means which it is arranged [2nd] free [rotation] near the peripheral face of the 2nd printing cylinder, and makes said print sheet exfoliate from the peripheral face of the 2nd printing cylinder, The adsorption drum which looped around the adsorption member which the peripheral face is prepared free [attachment and detachment] to the peripheral face of the 2nd printing cylinder, and adsorbs ink on the peripheral face, Said print sheet with which it was prepared in the location between the 1st printing cylinder arrangement location and the 2nd printing cylinder arrangement location, and printing was made by the 1st printing cylinder in the 1st field so that said 1st field may counter with the peripheral face of said adsorption drum The 1st form conveyance means conveyed towards between said adsorption drum and 2nd printing cylinder, It is prepared in the print sheet conveyance direction downstream of the 2nd printing cylinder arrangement location, and the 2nd form conveyance means which turns to a paper output tray said print sheet with which printing was made by the 2nd printing cylinder in the 2nd field, and conveys it is provided. When the print sheet is conveyed with the 1st form conveyance means and said print sheet is conveyed between the 2nd printing cylinder and said adsorption drum after the 1st field of said print sheet was printed with the 1st printing cylinder While making the peripheral face of said adsorption drum contact the peripheral face of the 2nd printing cylinder and printing to the 2nd field of said print sheet After adsorbing the ink of the surplus supplied to the 1st field of said print sheet from the 1st printing cylinder by said adsorption member, The mimeograph airline printer characterized by exfoliating said print sheet [finishing / double-sided printing] from the peripheral face of the 2nd printing cylinder, conveying said exfoliative print sheet with the 2nd form conveyance means, and discharging to said paper output tray with the 2nd exfoliation means.

[Claim 2] The 1st printing cylinder which can rotate freely with porosity, and the 1st ink supply means which is prepared in the interior of the 1st printing cylinder, and supplies ink to the inner skin of the 1st printing cylinder, It is prepared free [attachment and detachment] to the peripheral face of the 1st printing cylinder, and the print sheet with which it was fed is pressed to the peripheral face of the 1st

printing cylinder. The press member which transfers the ink supplied from the 1st ink supply means to the 1st field of this print sheet and which can be rotated, The 1st exfoliation means which it is arranged [1st] free [rotation] near the peripheral face of the 1st printing cylinder, and makes said print sheet exfoliate from the peripheral face of the 1st printing cylinder, The 2nd printing cylinder which is the cylinder object which can rotate freely with the porosity prepared in the print sheet conveyance direction downstream of the 1st printing cylinder arrangement location, and was arranged so that the peripheral face might counter with the 2nd field of said print sheet, The 2nd ink supply means which is prepared in the interior of the 2nd printing cylinder, and supplies ink to the inner skin of the 2nd printing cylinder, The 2nd exfoliation means which it is arranged [2nd] free [rotation] near the peripheral face of the 2nd printing cylinder, and makes said print sheet exfoliate from the peripheral face of the 2nd printing cylinder, The press drum which the peripheral face is prepared free [attachment and detachment] to the peripheral face of the 2nd printing cylinder, and adsorbs ink by the peripheral face, A cleaning means established near the peripheral face of said press drum to clean the peripheral face of said press drum, Said print sheet with which it was prepared in the location between the 1st printing cylinder arrangement location and the 2nd printing cylinder arrangement location, and printing was made by the 1st printing cylinder in the 1st field so that said 1st field may counter with the peripheral face of said press drum The 1st form conveyance means conveyed towards between said press drum and 2nd printing cylinder, It is prepared in the print sheet conveyance direction downstream of the 2nd printing cylinder arrangement location, and the 2nd form conveyance means which turns to a paper output tray said print sheet with which printing was made by the 2nd printing cylinder in the 2nd field, and conveys it is provided. When the print sheet is conveyed with the 1st form conveyance means and said print sheet is conveyed between the 2nd printing cylinder and said press drum after the 1st field of said print sheet was printed with the 1st printing cylinder While making the peripheral face of said press drum contact the peripheral face of the 2nd printing cylinder and printing to the 2nd field of said print sheet The ink of the surplus supplied to the 1st field of said print sheet from the 1st printing cylinder The mimeograph airline printer characterized by exfoliating said print sheet [finishing / double-sided printing] from the peripheral face of the 2nd printing cylinder, conveying said exfoliative print sheet with the 2nd form conveyance means, and discharging to said paper output tray with the 2nd exfoliation means after adsorbing by the peripheral face of said press drum.

[Claim 3] The mimeograph airline printer according to claim 2 characterized by forming the surface layer which becomes the peripheral face of said press drum from a low coefficient-of-friction member.

[Claim 4] The mimeograph airline printer according to claim 2 or 3 characterized by providing a heating means to heat said press drum, and a temperature control means to control the heating temperature of said heating means.

[Claim 5] The printing cylinder which can rotate freely with porosity, and an ink supply means to be formed in the interior of said printing cylinder, and to supply ink to the inner skin of said printing cylinder, The press member prepared free [attachment and detachment] to the peripheral face of said printing cylinder is provided. In the mimeograph airline printer which presses the print sheet with which it was fed to the master of said printing cylinder by said press member, and prints to a print sheet after looping said printing cylinder around an engraved master The adsorption drum which looped around the adsorption member which adsorbs a part for the surplus of the ink which was prepared in the print sheet conveyance direction downstream of said printing cylinder arrangement location, and was supplied to said print sheet from said printing cylinder on the peripheral face, A printed form conveyance means to convey the printed form which it was prepared [form] in the location between said printing cylinder arrangement location and said adsorption drum arrangement location, and had ink imprinted towards said adsorption drum so that the printing side may counter with the peripheral face of said adsorption drum, The mimeograph airline printer characterized by providing a printed form press means to press said printed form which is prepared free [attachment and detachment] to the peripheral face of said adsorption drum, and is conveyed by said printed form conveyance means to said adsorption drum.

[Claim 6] The adsorption member used for the mimeograph airline printer according to claim 1 or 5 characterized by said adsorption member consisting of what mixed Japanese paper fiber or Japanese

paper fiber, and a synthetic fiber.
[Claim 7] The

[Claim 8] The adsorption member used for the mimeograph airline printer according to claim 1 or 5 characterized by providing a hydrophobic member spreading means to give hydrophobicity to said adsorption member.

[Claim 8] The adsorption member used for the mimeograph airline printer according to claim 1 or 5 characterized by performing hydrophobing processing to said adsorption member.

[Claim 9] The adsorption member according to claim 6 characterized by providing a

[Claim 9] The adsorption member according to claim 6 characterized by performing hydrophobing processing.

[Claim 10] The mimeograph airline printer according to claim 1 or 5 characterized by providing a heating means to heat said adsorption drum, and a temperature control means to control the heating temperature of said heating means.

[Translation done.]